DERWENT-ACC-NO: 2000-059904

DERWENT-WEEK: 200007

TITLE: Automatic optimization
processing method for digital
                          image photographed by digital
camera - involves
                          converting input digital
image to output digital image by
                          using generated toner curve
provided with desired amount
                          of swelling correction

PRIORITY-DATA: 1998JP-0121936 (May 1, 1998)

PATENT-FAMILY:
PUB-NO   PUB-DATE
LANGUAGE   PAGES   MAIN-IPC
JP 11317872 A   November 16, 1999
N/A   011   H04N 001/407

APPLICATION-DATA:
PUB-NO   APPL-DESCRIPTOR
APPL-NO   APPL-DATE
JP 11317872A   N/A
1998JP-0121936   May 1, 1998

INT-CL (IPC): H04N001/407, H04N001/46 ,
H04N001/60 , H04N005/262 ,
H04N005/92 , H04N009/64

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Basic Abstract Text - ABTX (1):

NOVELTY - An input digital image is converted to an output digital image by
using a generated toner **curve provided with desired amount of swelling
correction**. The output density value level of the shadow point and highlight
point of the output image is set as input density value level corresponding to
the desired input density value level of the shadow point and highlight point
of the input image. DETAILED DESCRIPTION - The desired input density value
level for specifying the shadow point and highlight point of the input image is
set based on the relation of the **center of gravity** deviation of the density
value **histogram** of optimum image, and the amount of swelling correction of the
tone curve. The **center of gravity** deviation of the density value **histogram** of
the input digital image is computed based on image data. An INDEPENDENT CLAIM
is also included for an automatic optimization processor.

US-PAT-NO: 5075788

DOCUMENT-IDENTIFIER: US 5075788 A
See image for Certificate of Correction

TITLE: Image quality control
apparatus capable of
                        density-correcting plural
areas of different types

DATE-ISSUED: December 24, 1991

US-CL-CURRENT: 358/2.1, 358/462

APPL-NO: 07/ 442854

DATE FILED: November 29, 1989

PARENT-CASE:

   This application is a division of application
Ser. No. 081,721, filed Aug.
4, 1987, now U.S. Pat. No. 4,903,145.

                            FOREIGN-APPL-PRIORITY-DATA:
   COUNTRY   APPL-NO
APPL-DATE
   JP   61-184557   August
6, 1986
   JP   61-184558   August
6, 1986
   JP   61-184565   August
6, 1986

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05/31/2003, EAST Version: 1.03.0002

Detailed Description Text - DETX (88):

In the above embodiment, the **average** density of the eight points using the
point AP as the central point is calculated for density correction of the
photograph area, and the corresponding **histogram** is formed. However, upper and
lower limits are provided to some or all density histograms are provided, and
these histograms are integrated. Curves similar to the integrated **curves may**
be used to correct the density as follows. The mechanical structure of the
next embodiment is substantially the same as that of FIG. 2(a), and a detailed
description thereof will be omitted.